

LISTING OF CLAIMS

This listing of claims replaces all prior versions and listings of claims in the patent application.

Claim 1 (currently amended): A travel vibration suppressing device ~~20~~ of a working vehicle ~~being characterized by~~ comprising:

a hydraulic pump ~~21~~;

at least one actuator ~~11~~ actuated by pressure oil discharged from the hydraulic pump ~~21~~;

an accumulator ~~27~~ connected to one pressure chamber in the at least one actuator ~~11~~ for absorbing a pressure pulsation in the pressure chamber;

a directional control valve ~~29~~ for controlling the pressure oil supplied from the hydraulic pump ~~21~~ to the actuator ~~11~~; and

a ride control valve ~~31, 31A, 31B~~ for controlling a communication and a cutoff between the accumulator ~~27~~ and the pressure chamber,

wherein the ride control valve ~~31, 31A, 31B~~ is arranged on the directional control valve ~~29~~ in a laminated manner by an internal piping.

Claim 2 (currently amended): The travel vibration suppressing device according to claim 1, ~~being characterized in that~~ wherein

a first pressure sensor ~~81~~ for detecting a load pressure of the actuator ~~11~~ and/or a travel state detecting sensor ~~84~~ for detecting a travel state of the working vehicle is arranged, and

a communication opening area of the ride control valve ~~31B~~ is controlled on a basis of a detected signal from the first pressure sensor ~~81~~ and/or the travel state detecting sensor ~~84~~.

Claim 3 (currently amended): The travel vibration suppressing device according to claim 2, ~~being characterized in that~~ wherein

a second pressure sensor ~~82~~ for detecting a pressure of an accumulator ~~27~~ is arranged, and

when a detected pressure of the accumulator ~~27~~ detected by the second pressure sensor ~~82~~ is higher than the load pressure of the actuator ~~11~~ detected by the first pressure sensor ~~81~~, a ride control valve ~~31A~~ is controlled so as to reduce the pressure of the

accumulator 27 to the load pressure of the actuator 11, and thereafter the accumulator 27 is communicated with a pressure chamber.

Claim 4 (currently amended): The travel vibration suppressing device according to any one of claims 1 and 2, ~~being characterized in that~~ wherein the ride control valve 31B is structured so as to freely change an upper limit opening area that is opened as a communication opening area.

Claim 5 (currently amended): The travel vibration suppressing device according to claim 4, ~~being characterized in that~~ wherein a control for reducing the upper limit opening area is executed as a load pressure of an actuator 11 becomes higher and/or as a traveling speed of a working ~~vehicle~~ vehicle becomes higher.

Claim 6 (currently amended): The travel vibration suppressing device according to claim 4, ~~being characterized in that~~ wherein a control for expanding the upper limit opening area is executed as a load pressure of an actuator 11 becomes lower and/or as a traveling speed of a working ~~vehicle~~ vehicle becomes lower.

Claim 7 (currently amended): The travel vibration suppressing device according to any one of claims 1 and 2, ~~being characterized in that~~ wherein the ride control valve 31 is provided with a variable throttle 88 for equalizing pressures in the pressure chamber and the accumulator 27.

Claim 8 (currently amended): The travel vibration suppressing device according to any one of claims 1 and 2, ~~being characterized by~~ further comprising a speed increasing valve 33 for supplying the pressure oil from the hydraulic pump 24 to the at least one actuator 11, wherein the speed increasing valve 33 is arranged on the ride control valve 31, 31A, 31B or the directional control valve 29 in a laminated manner by the internal piping and/or an external piping.